

## Sunday 3 December

16:30	Registration Desk open <b>Room:</b> Level 0- 260-071 Foyer (downstairs) Please report to the Registration Desk to collect your name badge, conference handbook, bag, and for general enquiries.
16:30	Welcome Reception starts <b>Room:</b> Level 1- 260-101 Foyer
18:30	Welcome Reception ends

## Monday 4 December

08:00	Registration Desk open
09:00	Conference Welcome to delegates and official opening <b>Room:</b> 098-Lecture Theatre
09:30	<b>Keynote 1:</b> Professor Yaojun Ge, Tongji University, China <i>Aerodynamic stabilization and robustness evaluation of cable-supported bridges</i> <b>Room:</b> 098-Lecture Theatre <b>Chair:</b> Prof. Richard Flay

### 10:30 Morning Tea

	<b>Bridge Aerodynamics 1</b> Chair: Jiaqi Wang	<b>Bluff Body Aerodynamics I</b> Chair: Kit Ming Lam	<b>Computational Wind Engineering I</b> Chair: Yoshide Tominaga	<b>Experimental Modelling or Wind Tunnel Testing I</b> Chair: Mark Sterling	<b>Field Measurement I</b> Chair: Minoru Noda
	098- Lecture Theatre	OGGB5, 260-051	OGGB4, 260-073	Case Room 2, 260-057	Case Room 3, 260-055
11:00	<b>Michael Styrk Andersen</b>	<b>James Tan</b>	<b>Shuyang Cao</b>	<b>Jinxin Cao</b>	<b>Yajun Huang</b>

	1.Recent advances and challenges for the non-flutter design principle	2.The effects of Reynolds number on aeroelastic wind load studies of partially rounded structures	3. Investigation of Tornado-induced Wind Pressure Characteristics on Low-rise Buildings by LES	4. Characteristics and Performances of a Newly-Built Actively-Controlled Multiple-Fan Wind Tunnel	5. Field Measurements of Wind-induced Responses of Shanghai World Financial Center: Investigation of Amplitude-dependent Damping
11:20	<b>Dr. Konstantinos Nikolaos Bakis</b>	<b>Md Mahbub Alam</b>	<b>Joerg Franke</b>	<b>Chia-Ren Chu</b>	<b>Xiao Li</b>
	6. Introducing the Flap Mass Damper for Controlling Bridge Aeroelastic Instabilities	7. Phase lags between vortex sheddings from three tandem cylinders	8. Validating LES of the Flow in the Development Section of a Boundary Layer Wind Tunnel	9. Experimental Study of Wind Load of Solar Trackers on Flat-Roof Buildings	10. Structural responses of a high-rise building during three severe typhoons
11:40	<b>Wu Bo</b>	<b>Ying Chang</b>	<b>Richard Jones</b>	<b>Andrzej Flaga</b>	<b>Michael Schatzmann</b>
	11. Analytical and Experimental Study of a Flat Box Girder Under Bimodal Coupled Flutter Onsets	12. Effect of Turbulence Characteristics on Fluctuating Pressure Characteristics around Circular Cylinders and Cooling Towers	13. Wind-induced Human Comfort: Outline of a Computational Procedure	14. Determination of gust response factors by laser measurements of buildings aeroelastic models displacements	15. Field Data versus Wind Tunnel Data: The Art of Validating Urban Flow and Dispersion Models
12:00	<b>Virote Boonyapinyo</b>	<b>Zeng-shun Chen</b>	<b>Jenmu Wang</b>	<b>Arindam Gan Chowdhury</b>	<b>Jingmiao Shang</b>
	16. Aerodynamic Response of Two Parallel Cable-Stayed Bridges	17. Aerodynamic damping of inclined slender prisms	18. ANN-Based Modelling and Estimation of Wind Pressure Spectra for Hemispherical Dome Roofs	19. Wind Loads on Buildings with Balcony Glass Handrails	20. Analysis and Field Measurement about Spatial Correlation of Fluctuating Wind of Xihoumen Bridge
12:20	<b>Taku Hanai</b>	<b>Yuzuru Eguchi</b>	<b>Masaharu Kawaguchi</b>	<b>Rajeev Gupta</b>	

	21. Re-Evaluation of Aerodynamic Stability of a Suspension Bridge that Served for 30 years	22. On Appropriate Value of Flight Parameter in Numerically Simulating Trajectories of Wind-borne Rectangular Rod	23. Generation of Higher Frequency Components for Wind Gust by Fusion Analyses of WRF and LES	24. Experimental investigation of interference effects on aeroelastic model of NDCT	
12:40 Lunch					
13:30	<b>Keynote 2:</b> Muhammad Saidur Rahman, Bangladesh Disaster Preparedness Centre (BDPC), Bangladesh <i>Community Resilience: The Way Forward for the Developing Countries</i> <b>Room:</b> 098-Lecture Theatre <b>Chair:</b> Dr Richard Clarke				
	<b>Bridge Aerodynamics II</b> Chair: Le-Dong Zhu	<b>High-Rise Buildings II</b> Chair: Jiming Xie	<b>Computational Wind Engineering II</b> Chair: Shuyang Cao	<b>Wind Characteristics I</b> Chair: Craig Miller	<b>Field Measurement II</b> Chair: Xiao Li
	098-Lecture Theatre	OGGB5, 260-051	OGGB4, 260-073	Case Room 2, 260-057	Case Room 3, 260-055
14:30	<b>Cung Ming Ma</b>	<b>Ashok Kumar Ahuja</b>	<b>Erfan Keshavarzian</b>	<b>Keiji Araki</b>	<b>Massimiliano Burlando</b>
	25. Investigation on Wind Resistant Measures for High-speed Train Under Cross Winds	26. Height Effect of Interfering Buildings on Wind Pressure Distribution on Rectangular Plan Tall Buildings	27. Impact of location of pollutant sources on air pollution dispersion around a high rise building	28. An Evaluation of Wind Increments for Optimizing Operation Control Under Strong Wind in Railways	29. Analysis of Wind Vertical Profiles of Thunderstorm Events in the Mediterranean
14:50	<b>Hiroshi Katsuchi</b>	<b>Chii-ming Cheng</b>	<b>Hideki Kikumoto</b>	<b>Hiroshi Hasebe</b>	<b>Hengameh FarahPour</b>
	30. Wind-tunnel Study on Aerodynamic Retrofitting of A Suspension Bridge that served for 30 Years	31. An Crosswind Equivalent Static Wind Load Model for Rectangular Shaped Tall Buildings	32. Study on multiple definitions of mean wind speed in pedestrian wind environment analyses using LES	33. Characteristics of instantaneous wind in an urban area measured by an ultra-sonic velocimetry	34. Field Measurements of a Full-scale INVELOX Wind Turbine
15:10	<b>Ming Li</b>	<b>Changda Feng</b>	<b>Xiang Shen</b>	<b>John Holmes</b>	<b>Sheng Chen</b>

	35. Experimental study on vortex-induced vibration of a cable-stayed bridge with flat box girder	36. Crosswind Response of Tall Buildings with Nonlinear Aerodynamic Damping under Nonstationary Wind Excitations	37. Effect of Wind barrier on Wind Environment above Parallel Girders	38. Roughness lengths and turbulence intensities for wind over water	39. Aeroelastic Model Test and Field Measurement of 40-m High Lattice Tower
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**15:30 Afternoon Tea**

	<b>Bridge Aerodynamics III</b> Chair: Robert Soltys	<b>Bluff Body Aerodynamics II</b> Chair: Ying Chang	<b>Wind Hazard Assessment I</b> Chair: Neil Jamieson	<b>Experimental Modelling or Wind Tunnel Testing II</b> Chair: Koji Sassa	<b>Wind Characteristics II</b> Chair: John Holmes
	<b>098-Lecture Theatre</b>	<b>OGGB5,260-051</b>	<b>OGGB4, 260-073</b>	<b>Case Room 2, 260-057</b>	<b>Case Room 3, 260-055</b>
16:00	<b>Mingshui Li</b>	<b>Yang Gao</b>	<b>Timothy John S. Acosta</b>	<b>Pititat Itsariyapinyo</b>	<b>Mingfeng Huang</b>
	40. Buffeting predication of long-span bridges using two wavenumber aerodynamic admittance	41. Large Eddy Simulations of Blockage Ratio Effect on a Square Cylinder In a Uniform Flow	42. Development of a Rapid Visual Assessment Tool for 1-Storey Classrooms Subjected to Severe Wind Loading	43. Experimental Study of a NACA0015 Circulation Control Aerofoil Using Synthetic Jets	44. Non-stationarity of extreme wind speeds in Hangzhou with time varying exposure
16:20	<b>Shaopeng Li</b>	<b>Chuan-xin Hu</b>	<b>Zhongdong Duan</b>	<b>William Melbourne</b>	<b>Yumi Iida</b>
	45. A Semi-analytical Solution for Three-dimensional Aerodynamic Admittance of Streamlined Bridge Deck in Turbulent Flow	46. Study on the Effects of Aerodynamic Interference on VIV Performance	47. A Statistical Dynamics Track Model of Tropical Cyclones in the Western North Pacific Basin	48. MEL Consultants New High Reynolds Number and Full Scale Wind Engineering Wind Tunnel	49. A numerical study of wind fields near ground induced by moving downbursts

16:40	<b>Zhiguo Li</b>	<b>Qi Wang</b>	<b>Genshen Fang</b>	<b>Yosuke Nagumo</b>	<b>Jing Jong Jang</b>
	50. Experimental Study on Aerodynamic Parameters for Steel Truss Girder of Long Span Railway Bridge	51. Flutter Derivatives of a Thin Plate Model under Different Attack Angles	52. Typhoon Wind Field considering the Probabilistic Correlation among Field Parameters : Modelling and Validation	53. A Prediction Model for Lateral Force Coefficients of a Train Car in Turbulent Flows	54. A Study of the Wind Speed Profile for Tall Building Design in Taiwan Area
17:00	<b>Kyohei Noguchi</b>	<b>Seiji Nakato</b>	<b>Eriko Tomokiyo</b>	<b>Minoru Noda</b>	<b>Craig Miller</b>
	55. Evaluation of Sea Salt Amounts on I-shaped Bridge Girders Using WRF and CFD	56. Experimental Study on Aerodynamic Characteristics of Rectangular Cylinder with Appendages for Various Angle of Attack	57. Prediction Method for Building Damage Areas due to Tornadoes in Japan	58. Development of a Tornado Simulator with Multi-fan, Multi-vane and Moving belt	59. Surface-Layer Turbulence in Landfalling Tropical Cyclones: Integral Length Scales And Spectra

17:20: Day one ends

**Twisted Flow Wind Tunnel and Boundary Layer Wind Tunnel Visit: University of Auckland Newmarket Campus**

*17:30: buses will leave from the front entrance of the Owen G Glenn Building*

*19:30 (approx.): buses will leave from Newmarket Campus, returning to the Owen G Glenn Building*

## Tuesday 5 December

08:00	Registration Desk open				
09:00	<p><b>Keynote 3:</b> Professor Yoshihide Tominaga, Department of Architecture and Building Engineering, Niigata Institute of Technology, Japan  <i>CFD simulation of near-field pollutant dispersion in the built environment: Current status and applicataions</i>  <b>Room:</b> 098-Lecture Theatre <b>Chair:</b> Prof. Peter Richards</p>				
	<p><b>Bridge Aerodynamics IV</b>  <b>Chair:</b> Yaojun Ge</p>	<p><b>Computational Wind Engineering III</b>  <b>Chair:</b> Bowen Yan</p>	<p><b>Low-Rise Buildings I</b>  <b>Chair:</b> Neil MacKenzie</p>	<p><b>Wind Loading I</b>  <b>Chair:</b> Michael Kasperski</p>	<p><b>Bluff Body Aerodynamics III</b>  <b>Chair:</b> Ying Chang</p>
	098- Lecture Theatre	OGGB5, 260-051	OGGB4, 260-073	Case Room 2, 260-057	Case Room 3, 260-055
	<b>Qing Zhu</b>	<b>Yuan-Lung Lo</b>	<b>Ashok Kumar Ahuja</b>	<b>Changda Feng</b>	<b>Takashi Nomura</b>
	60. Effects of Turbulence and Nonuniformly Distributed Mean Wind on Vortex-induced Vibration of a Long-span Bridge	61. Study on Interference Effect of Square Cylinders by Large Eddy Simulation	62. Effect of spacing on wind pressure distribution on circular canopy roofs	63. Analysis of Tornado-Induced Pressures and Internal Forces of a Building Frame	64. Wind Tunnel Experiment to Measure Impact Forces of Wind-blown Spheres Colliding at the Ground
	<b>Junxin Wang</b>	<b>Yin Luo</b>	<b>Geeth Bodhinayake</b>	<b>Andrzej Flaga</b>	<b>Hironichi Shirato</b>
	65. Experimental Studies on VIV Countermeasures for Long-Span Suspension Bridge with Twin-box Girder	66. A Divergence-free Multi-scale Synthetic Eddy Method for LES Simulation of ABL	67. External and Internal Pressure Fluctuations on Industrial-Type Buildings	68. The influence of the tent halls geometry on wind action	69. Span-wise and Sectional Flow Structure in Separation Bubble Featured by DMD
	<b>Haili Liao</b>	<b>Takashi Maruyama</b>	<b>Eri Gavanski</b>	<b>Shenghong Huang</b>	<b>Kit Ming Lam</b>

	70. Study on Aerodynamic Characteristics of A New Suspension Bridge with Twin-box Girder	71. Variation of Flying Debris' Trajectory with Different Tornado-like Flow Fields	72. Examination of failure wind speed for roof structure of wooden houses in the Enhanced-Fujita scale	73. Numerical evaluation of wind loads on a high-rise building by dynamic moving Tornado	74. POD analysis of wind field past rectangular buildings
<b>11:00 Morning Tea</b>					
	<b>Bridge Aerodynamics V</b> Chair: Yang Yang	<b>Computational Wind Engineering IV</b> Chair: Joerg Franke	<b>Vehicles and Sport</b> Chair: Mike Kingan	<b>Wind Loading II</b> Chair: Haiwei Xu	<b>Bluff Body Aerodynamics IV</b> Chair: Chuan-xin Hu
	<b>098-Lecture Theatre</b>	<b>OGGB5, 260-051</b>	<b>OGGB4, 260-073</b>	<b>Case Room 2, 260-057</b>	<b>Case Room 3, 260-055</b>
11:30	<b>Robert Soltys</b>	<b>Haiyan Miao</b>	<b>Qingsong Duan</b>	<b>Mitchell Humphreys</b>	<b>Feng Wang</b>
	75. Numerical Method for Buffeting Simulation of Cable-Supported Bridges in Time-Domain	76. Developing Three-Dimensional CFD City Model Based on Public Accessible Information for GreenMark Building Ventilation Assessment	77. Experimental investigation of gusty loads on trains on a truss-girder suspension bridge	78. Internal Pressure Fluctuations in Large Open Plan Buildings	79. Wind Loads Acting on Clad Scaffolding
11:50	<b>Zhong-Xu Tan</b>	<b>Yoshihide Tominaga</b>	<b>Chen Fang</b>	<b>Michael Kasperski</b>	<b>Bill Melbourne</b>
	80. Modelling of distributed Aerodynamic and Aeroelastic Pressures on Bridge Deck Based on Proper Orthogonal Decomposition	81. CFD Simulation of Unbalanced Snow Accumulation due to Wind on a Two-level Flat-roof Model	82. Wind and Wave Response Analysis of Vehicle-Bridge System for Sea-Crossing Bridge	83. Directional design of a high-rise building	84. Embedded Turbulence in the Wake of Buildings Affecting Aircraft Operations
12:10	<b>Jiaqi Wang</b>	<b>Tsubasa Okaze</b>	<b>Dongming Zhang</b>	<b>Hidenori Kawai</b>	<b>Bo Wu</b>
	85. Aerodynamic Performance of Box Girder with Side Openings	86. Large-Eddy Simulation of Flow around Buildings: Validation and Sensitivity Analysis	87. Safety Assessment of Road Vehicles and Realization of On-board Wind Pre-warning System	88. Appropriate numerical conditions for practical LES of actual high rise building	89. Numerical Investigation on the Unsteady Behaviour of a Rectangular Cylinder due to a Periodic Gust

## 12:30 Lunch

13:30	<p><b>Keynote 4:</b> Dr. S. Gomathinayagam, Former Director General, National Institute of Wind Energy, Chennai, India  <i>Wind Energy Research and Development: Way Forward in India 60GW by 2022</i>  <b>Room:</b> 098-Lecture Theatre <b>Chair:</b> Dr Rajnish Sharma</p>				
	<p><b>Bridge Aerodynamics VI</b>  <b>Chair:</b> Zhong-Xu Tan</p>	<p><b>Wind-Induced Response and Damping I</b>  <b>Chair:</b> Luisa Carlotta Pagnini</p>	<p><b>Wind Energy and Applications I</b>  <b>Chair:</b> Soon-Duck Kwon</p>	<p><b>Wind Hazard Assessments II</b>  <b>Chair:</b> Richard Turner</p>	<p><b>High-Rise Buildings II</b>  <b>Chair:</b> Xinzhong Chen</p>
	098-Lecture Theatre	OGGB5, 260-051	OGGB4, 260-073	Case Room 2, 260-057	Case Room 3, 260-055
14:30	<b>Yasuaki Ito</b>	<b>Xingyu Chen</b>	<b>Sina Hassanli</b>	<b>Neil Jamieson</b>	<b>Andrzej Flaga</b>
	90. Gust Response Evaluation of Cable-Stayed Bridges under Erection using Gust Response Analysis and Elastic Model	91. On Vortex-Induced Vibration Mechanisms of a Flat-Closed-Box Girder via Analysis of Distributed Pressures	92. Performance Assessment of Cascaded Wind Turbines inside Through-building Openings	93. Comparison of Windstorm Damage with Computer-Modelled and Measured Wind Speeds	94. Wind tunnel tests of aerodynamic interference between two high-rise buildings and the pedestrian wind comfort
14:50	<b>Felix Nieto</b>	<b>Xuliang Han</b>	<b>Neil Hawkes</b>	<b>Stuart Moore</b>	<b>Yi Hui</b>
	95. Twin Box Deck 2D URANS Simulations: Gap Width Effect on Force Coefficients and Strouhal Number	96. Identification of Structural Modal Parameters of a 600m high Super-Tall Building during a Typhoon	97. A Model of Tangential Wind-speeds in Dust-Devils	98. Application of very high resolution Numerical Weather Prediction to assessing wind damage during TC Winston	99. Effects of surface roughness on the local pressure of high-rise building
15:10	<b>Bartosz Siedziako</b>	<b>Yong Quan</b>	<b>Seyed AmirHosein Jafari</b>	<b>Junhee Park</b>	<b>Naveen Kwatra</b>

	100. A New Experimental Approach to Validation of Aerodynamic Derivatives Based Model for Self-Excited Forces	101. Discussion on the Applicability of Using RDT to Identify the Aerodynamic Damping under Vortex-Induced Resonance	102. Effect of Incident Wind Angle on Power Generation of Building Integrated Wind Turbines	103. Development of Probabilistic High Wind Risk Assessment Methodology for Korea Nuclear Power Plants	104. Alongwind Response of Tall Rectangular Buildings from Wind Tunnel Studies: Effect of Turbulence Parameters
<b>15:30 Afternoon Tea</b>					
	<b>Cable and Bridges</b> Chair: Qing Zhu	<b>Wind-Induced Response and Damping II</b> Chair: Xingyu Chen	<b>Wind Characteristics III</b> Chair: Jing Jong Jang	<b>Environmental Dispersion and Pollution</b> Chair: Erfan Keshavarzian	<b>High-Rise Buildings III</b> Chair: Achal Mittal
	<b>098-Lecture Theatre</b>	<b>OGGB5, 260-051</b>	<b>OGGB4, 260-073</b>	<b>Case Room 2, 260-057</b>	<b>Case Room 3, 260-055</b>
16:00	<b>Xiaoqing Du</b>	<b>Yong Chul Kim</b>	<b>Keisuke Nakao</b>	<b>Takenobu Michioka</b>	<b>Min Liu</b>
	105. Effects of Surface Roughness on Wake-induced Vibrations of Two Parallel Cables	106. Effects of Panel Shapes on the Response of Solar Wing Structure	107. Tornado-like vortex translating on the forest canopy	108. Effect of Wind Directional Fluctuation on Gas Dispersion Within a Cubical Canopy	109. Design of multi-DOF aeroelastic model for a solar tower and its experimental-study on wind-induced responses
16:20	<b>Wenyong Ma</b>	<b>Luisa Carlotta Pagnini</b>	<b>Jingmiao Shang</b>	<b>Bao-Shi Shiau</b>	<b>Achal Mittal</b>
	110. Effects of the reattachment on dry galloping in the critical Reynolds number range	111. 3-D Gust Effect Factor including aeroelastic effects	112. Spatial Correlation Analysis of Fluctuating Wind and Field Measurement of Long Span Bridge	113. Measurement of the Bent Discharge Pollution Dispersion around Step-up Street Canyon	114. Wind interference in tall buildings for varying plan ratios
16:40	<b>Haili Liao</b>	<b>Dengguo Wu</b>	<b>Jingcheng Wang</b>	<b>R. R. Hwang</b>	<b>Yogen Padayatchy</b>
	115. Flutter Analysis of Long Span Suspension Bridge Considering Aerostatic Torsional Angles	116. Non-proportional aerodynamic damping of transmission line conductors under wind loads	117. Estimation of Extreme Wind Speeds with Consideration of Wind Directionality for Typhoon-prone areas	118. Measurement of the Dispersion of Spilled Heavy Gas between a Trapezoidal Hill and a Building	119. Implications of Vented Facade on Curtain Walls, Partition Walls and Exhaust Fans in Tall Buildings
17:00	<b>Dahai Wang</b>	<b>Lin Zhao</b>	<b>Guarav Gugliani</b>	<b>Fei Xue</b>	<b>Ahmad Zaki</b>

	120. Analytical method for predicting the quasi-static buffeting response of transmission conductor under non-stationary winds	121. The Discussion of Wind-induced Interference Effects of Large Cooling Towers Considering Wind Direction	122. Determination of cyclonic factor in different wind zones of India	123. The Impact of Turbulent Schmidt number on Source Term Estimation Using Bayesian Inference	124. A CFD Simulation Study of Natural Ventilation with a Two-Sided Wind Catcher System
17:20	<b>Giuseppe Piccardo</b>		<b>Craig Miller</b>		<b>John Holmes</b>
	125. Nonlinear buffeting response of inclined stay cables		126. Surface-Layer Turbulence in Landfalling Tropical Cyclones: Shear Stress Behaviour		127. The Australasian Wind Actions Standard AS/NZS1170.2 - recent & future developments
17:40					<b>Yin Fai Li</b>
					128. Tall Building Aerodynamics: a POD perspective
<p><b>17:45: Day two ends</b></p> <p><b>Iawe Regional Assembly of Asia and Oceania Region (by invitation only)</b></p> <p><b>Room: OGGB5, 260-051</b></p>					

# Wednesday 6 December

08:00	Registration Desk open				
09:00	<b>Keynote 5:</b> Burns Fallow, North Sails, New Zealand <i>Using the Wind in a different way-30 years of Sailing</i> <b>Room:</b> 098-Lecture Theatre <b>Chair:</b> Anthony McBride				
	<b>Bridge Aerodynamics VII</b> <b>Chair:</b> Cung Ming Ma	<b>Bluff Body Aerodynamics V</b> <b>Chair:</b> Akihito Yoshida	<b>Computational Wind Engineering V</b> <b>Chair:</b> Hideki Kikumoto	<b>Experimental Modelling or Wind Tunnel Testing III</b> <b>Chair:</b> Yin Fai Li	<b>High-Rise Buildings IV</b> <b>Chair:</b> Zheng-Wei Zhang
	098- Lecture Theatre	OGGB5, 260-051	OGGB4, 260-073	Case Room 2, 260-057	Case Room 3, 260-055
10:00	<b>Yang Yang</b>	<b>Lei Yan</b>	<b>Hitoshi Suto</b>	<b>Ajay Gairola</b>	<b>Nicholas Truong</b>
	129. Vortex-Induced Vibration Research of Flat Steel Box Girder With Large Wind Attack Angle	130. The effect of bridge vibration on the buffeting forces of flat closed-box bridges	131. Momentum and scalar transport in inflow turbulence generated by linear forcing and PID control	132. Investigation of Aerodynamic Forces on High Rise Buildings with Set Back Modifications	133. Multi-Sector Directional Probability Integration of Wind Loads: Comparison against the Load-Effects and Sector Methods
10:20	<b>Wen-Ming Zhang</b>	<b>Qiang Zhou</b>	<b>Yuichi Tabata</b>	<b>Koji Sassa</b>	<b>Qinhua Wang</b>
	134. Nonlinear flutter of a triple-tower suspension bridge via full aeroelastic model wind tunnel tests	135. A LES investigation of flow over two tandem circular cylinders at an intermediate Reynolds number	136. Numerical Simulation for Predicting Snow Accretion Distribution on Building Wall	137. Laboratory Experiment of Non-Supercell Tornado Genesis on Local Front	138. Mathematical model on Three-dimensional Wind-induced Responses for a Vertical Forest and its Case Study
10:40	<b>Zhitian Zhang</b>	<b>Delong Zuo</b>	<b>Tetsuro Tamura</b>	<b>Mark Sterling</b>	<b>Jiming Xie</b>

	139. Wind-field-Dependence of Aerodynamic Admittances of Bluff Sections: Experimental and Numerical Investigations	140. Numerical Evaluation of Nonlinear Coupled Galloping of A Slender Tower	141. BCM-LES analysis of turbulent flows over and within actual urban canopy	142. Physically modelling windborne debris in tornado-like flow	143. New Approaches of Supertall Building Design for Wind Effects
<b>11:00 Morning Tea</b>					
	<b>Bridge Aerodynamics VIII</b> Chair: Lei Yan	<b>High-Rise Buildings V</b> Chair: Delong Zuo	<b>Low-Rise Buildings II</b> Chair: David Henderson	<b>Wind Loading III</b> Chair: Mitchell Humphreys	<b>Wind Characteristics IV</b> Chair: Jingmiao Shang
	<b>098-Lecture Theatre</b>	<b>OGGB5, 260-051</b>	<b>OGGB4, 260-073</b>	<b>Case Room 2, 260-057</b>	<b>Case Room 3, 260-055</b>
11:30	<b>Lin Zhao</b>	<b>Akihito Yoshida</b>	<b>Neil Mackenzie</b>	<b>Suresh Kumar Kumaresan</b>	<b>Yifan Wang</b>
	144. Aerodynamic Force Time-frequency Evolution Characteristics of the Streamlined Closed-box Girder during Vortex-induced Vibration	145. Characteristics of peak wind pressure acting on tall buildings with step on wall surface	146. Wind Engineering Applied to Heritage Structures	147. Guidelines for Improving Wind Resistance of Building Facades	148. The micro-scale typhoon wind field simulation for an offshore wind farm based on WRF model
11:50	<b>Yingzi Zhong</b>	<b>Junwei Zhang</b>	<b>Korah Parackal</b>	<b>Yuan-Lung Lo</b>	<b>Atsushi Yamaguchi</b>
	149. The Effect of Incident Flow on Aerodynamic Admittance of a Truss Girder	150. Effective and economic design strategy for vibration control of skyscrapers	151. Load Sharing Between Batten to Rafter Connections under Wind Loading	152. Estimation of the Design values of Local Wind-induced Loads Based on Short Wind Tunnel Experiments	153. Gust forecasting by using numerical weather prediction and on-site measurement
12:10	<b>Qi Zhou</b>	<b>Zheng-Wei Zhang</b>	<b>Peter Richards</b>	<b>Keisuke Miura</b>	<b>Yang Yang</b>
	154. Aerodynamic Derivative Identification Method of Parallel Twin-girder Bridges by Mixed Forced vibration Wind Tunnel Test	155. Influence of Wind Direction on Wind-induced Response of Tall Buildings with Rectangular Section	156. Leading Edge Vortex Dynamics on Building Side Walls	157. Uncertainty of Typhoon Pressure Field Properties for Typhoon Simulation	158. Some Statistical Aspects of Grid Turbulence at Higher Reynolds Numbers
12:30	<b>Le-Dong Zhu</b>	<b>Yi Li</b>	<b>Shuai Shao</b>	<b>Robert Reis</b>	<b>Jianfeng Yao</b>

	159. A Unified Self-Excited Torque Model for Vortex-Induced Vibration and Soft Flutter of a Twin-Side-Girder Deck	160. Characteristics of wind pressures on L-shaped tall buildings	161. Wind-induced Structural Force Characteristics on MWFRS of Low-rise Buildings with an Intermediate Roof Slope	162. A Discussion on the Development of Wind Engineering for the Design of Mining Related Structures	163. Turbulence effect on the flow around a circular cylinder with the diameter of 0.3m
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12:50 Pre-Packed Lunch (you will be able to take these on the harbour cruise with you)

**MEL Consultants Harbour Cruise:** 1:30-3:30pm. Coaches will leave from the front of the Owen G Glenn Building at 1pm (please check the Social pages in your conference handbook for more details)

**MEL Consultants Conference Dinner:** 6:00pm-10:00pm. The dinner will be held in the Kawau 1 Room, Viaduct Events Centre, 161 Halsey Street. (please check the Social pages in your conference handbook for more details)

# Thursday 7 December

08:00	Registration Desk open				
09:00	<b>Keynote 6:</b> Dr Jack Katzfey, Climate Science Centre, Oceans and Atmosphere, CSIRO, Australia <i>Tropical Cyclones and Climate Change Projections</i> <b>Room:</b> 098-Lecture Theatre <b>Chair:</b> Dr John Cater				
	<b>Human Comfort</b> <b>Chair:</b> Andrzej Flaga	<b>High-Rise Buildings VI</b> <b>Chair:</b> Changda Feng	<b>Wind Hazard Assessments III</b> <b>Chair:</b> Yukio Tamura	<b>Computational Wind Engineering VI</b> <b>Chair:</b> Richard Jones	
	OGGB5, 260-051	OGGB4, 260-073	Case Room 2, 260-057	Case Room 3, 260-055	
10:00	<b>Thomas Moyle</b>	<b>Kang Zhou</b>	<b>Amir Ali Safaei Pirooz</b>	<b>Jaime Jr. Hernandez</b>	
	164. Wind and Heat Modelling for Stadia	165. Decision Framework for the Optimal Installation of Outriggers of Super-Tall Buildings	166. Preliminary Extreme Wind Speed Estimates for the Auckland Region	167. Investigation of the Failure Progression of a 1-Story Gable-Roof Building Subjected to Sustained Wind Speeds	
10:20	<b>Yue Zhang</b>	<b>Gong Bo Zu</b>	<b>Pataya Scott</b>	<b>Ryan Tonkin</b>	
	168. Optimal strategy for VAC system in metro station of small and medium size city	169. Interference mechanism of two tall buildings in staggered arrangement	170. Analysis of residential building performance in tornadoes as a function of building and hazard characteristics	171. Modelling Wind Flow Over Chatham Island	
10:40		<b>Takashi Takeuchi</b>	<b>Mark Stewart</b>	<b>Tong Wang</b>	

		172. Characteristics of local wind force and wind response of a building under short-rise-time gusts	173. Fragility analysis of Australian contemporary housing roof sheeting failure due to extreme wind	174. Stratification Effects on Wind Characteristics over Two-Dimensional Steep Hills
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**11:00 Morning Tea**

		<b>Field Measurement III</b> Chair: Massimiliano Burlando	<b>Wind Hazard Assessments IV</b> Chair: Ajay Gairola	<b>Computational Wind Engineering VII</b> Chair: Jaime Jr. Hernandez	
		<b>OGGB4, 260-073</b>	<b>Case Room 2, 260-057</b>	<b>Case Room 3, 260-055</b>	
11:30		<b>Taichi Shirasawa</b>	<b>Richard Turner</b>	<b>Bowen Yan</b>	
		175. Wind environmental map and wind force scale based on free description by local residents	176. An analysis of three years of Convective Scale Numerical Model diagnosed gusts over New Zealand	177. LES of wind effects on super-tall buildings with cross-validation by wind tunnel and field measurement	
11:50		<b>Jiurong Wu</b>	<b>Feng Wang</b>	<b>Pu Zhang</b>	
		178. Three Dimensional Non-Stationary Analysis on Field Measured Wind Data during a Typhoon	179. A numerical approach to the simulation of plate-type wind-borne debris	180. Numerical analysis of particle motion and collision of surround U-clevis in windy and sandy environment	
12:10		<b>Tang Yi</b>	<b>Huatan Lin</b>	<b>Deqian Zheng</b>	

		181. Trajectory Analysis of Compact Debris in Simulated 3D Unsteady Wind Fields around Tall Buildings	182. A New Quasi-Steady Model for Magnus Effect of Rectangular Plate Windborne Debris	183. Large Eddy Simulation of Flow around Two Adjacent Tall Buildings
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**12:30 Lunch**

13:30	<b>Keynote 7:</b> Dr Matthew Mason, University of Queensland, Australia <i>Towards Codification of Localised Windstorms: Progress and Challenges</i> <b>Room:</b> 098-Lecture Theatre <b>Chair:</b> Prof. Richard Flay			
	<b>Experimental Modelling or Wind Tunnel Testing IV</b> <b>Chair:</b> Rajeev Gupta	<b>Large Span Structures</b> <b>Chair:</b> Giovanni Solari	<b>Wind Energy and Applications II</b> <b>Chair:</b> Sina Hassanli	<b>Wind Loading IV</b> <b>Chair:</b> Shenghong Huang
	OGGB5, 260-051	OGGB4, 260-073	Case Room 2, 260-057	Case Room 3, 260-055
14:30	<b>Murali Krishna Talluru</b>	<b>Xing Fu</b>	<b>Houi Gab Jeong</b>	<b>Tetsuro Tamura</b>
	184. Wind tunnel simulation of terrain categories specific to Australian wind code	185. Rain load for transmission tower-line system	196. Wake Characteristics of Closely Spaced Vertical Axis Wind Turbines	187. Application of LES to wind loading estimation on buildings
14:50	<b>Fuyou Xu</b>	<b>Nan Luo</b>	<b>Chuanjin Yu</b>	<b>Haiwei Xu</b>
	188. Experimental study on bridge aeroelastic model subjected to wind-rain actions	189. Wind Load Effects of Long-span Roof Structures Considering Wind Directionality	190. Very short-term wind speed forecasting by a new hybrid method	191. Combined effects of internal and external pressures for a building with wall openings

15:10	<b>Ting Yang</b>	<b>Yuki Takadate</b>		<b>Huili Xue</b>
	192. Aerodynamic forces on two-dimensional rectangular cylinders subjected to accelerating flow: effect of side ratio	193. Wind pressures and flow fields around large-span roofs with various shapes		194. A Wind Load and Structural Parameters Estimation Approach for Building Structures
15:30	<b>Andrea Freda</b>	<b>Jingyao Zhang</b>		<b>Ajay Gairola</b>
	195. Square-section aerodynamics: a (still) open benchmark case	196. Evaluation of Mass and Damping Effects for Structures with Flexible Envelope and Dominant Opening		197. Pedestrian level Wind Characteristics around Tall Buildings :Effect of building Shape and Wind Direction

15:50 Closing Session- 098-Lecture Theatre

16:10 Afternoon Tea/Day Four Ends